Application Serial No. 09/787,541 Amendment dated June 8, 2005 Reply to Office Action of March 8, 2005

## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

## Listing of Claims:

1. (Currently Amended) A synthetic middle distillate cut having less than 9 mass%, as determined according to IP 391 or ASTM D 5186 standards, aromatics content, between 0.44 mass% and 8.99 mass% monocyclic aromatics content, and less than 0.01 mass% polycyclic aromatics, wherein the synthetic distillate is derived from a FT primary product.

## 2-3 (Canceled)

- 4. (Previously Presented) A synthetic middle distillate cut as claimed in claim 1, having an isoparaffins to n-paraffins mass ratio of between about 1:1 to about 12:1.
- 5. (Original) A synthetic middle distillate cut as claimed in claim 4, wherein the isoparaffins to n-paraffins mass ratio is between about 2:1 to about 6:1.
- 6. (Original) A synthetic middle distillate cut as claimed in claim 5, wherein the isoparaffins to n-paraffins mass ratio is 4:1.
- 7. (Canceled)
- 8. (Previously Presented) A synthetic middle distillate cut as claimed in claim 4, wherein the synthetic distillate comprises more than 50% isoparaffins, the isoparaffins are predominantly methyl and/or ethyl and/or propyl branched.
- 9. (Original) A synthetic middle distillate cut as claimed in claim 8, wherein the gradient of an isoparaffins to n-paraffins mass ratio profile of the synthetic middle distillate cut increases from about 1:1 for C<sub>8</sub> to 8.54:1 for C<sub>15</sub> and decrease again to about 3:1 for C<sub>18</sub>.

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- 10. (Original) A synthetic middle distillate cut as claimed in claim 9, wherein a fraction of the synthetic middle distillate cut in the  $C_{10}$  to  $C_{18}$  carbon number range has a higher ratio of isoparaffins to n-paraffins than a  $C_8$  to  $C_9$  fraction of the synthetic middle distillate cut.
- 11. (Previously Presented) A synthetic middle distillate cut as claimed in claim 9, wherein the isoparaffins to n-paraffins mass ratio of the C<sub>10</sub> to C<sub>18</sub> fraction is between 1:1 and 9:1.
- 12. (Currently Amended) A synthetic middle distillate cut as claimed in claim 98, wherein the isoparaffins to n-paraffins mass ratio is about 8.54:1 for a  $C_{15}$  fraction of the synthetic middle distillate cut.
- 13. (Previously Presented) A synthetic middle distillate cut as claimed in claim 8, wherein a  $C_{19}$  to  $C_{24}$  fraction of the middle distillate cut has a mass ratio range of isoparaffins to n-paraffins of between 3.3:1 and 5:1.
- 14. (Previously Presented) A synthetic middle distillate cut as claimed in claim 8, wherein the mass ratio of isoparaffins to n-paraffins is adjusted by controlling the blend ratio of hydrogracked to straight run components of the synthetic middle distillate cut.
- 15. (Original) A synthetic middle distillate cut as claimed in claim 14, wherein the isoparaffins to n-paraffins mass ratio of the C<sub>10</sub> to C<sub>18</sub> fraction having 30% straight run component is between 1:1 and 2:5:1.
- 16. (Original) A synthetic middle distillate cut as claimed in claim 14, wherein the isoparaffins to n-paraffins mass ratio of the C<sub>10</sub> to C<sub>18</sub> fraction having 20% straight run component is between 1.5:1 and 3:5:1.
- 17. (Original) A synthetic middle distillate cut as claimed in claim 14, wherein the isoparaffins to n-paraffins mass ratio of the C<sub>10</sub> to C<sub>18</sub> fraction having 10% straight run component is between 2.3:1 and 4.3:1.

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- 18. (Original) A synthetic middle distillate cut as claimed in claim 14, wherein the isoparaffins to n-paraffins mass ratio of the C<sub>10</sub> to C<sub>18</sub> fraction having substantially only a hydrocracked component is between 4:1 and 9:1.
- 19. (Previously Presented) A middle distillate cut as claimed in claim 8, wherein at least some of the isoparaffins are methyl branched.
- 20. (Previously Presented) A middle distillate cut as claimed claim 8, wherein at least some of the isoparaffins are di-methyl branched.
- 21. (Previously Presented) A middle distillate cut as claimed claim 8, wherein at least 30% (mass) of the isoparaffins are mono-methyl branched.
- 22. (Previously Presented) A middle distillate cut as claimed claim 8, wherein at least some of the isoparaffins are ethyl branched.
- 23-25 (Canceled)
- 26. (Previously Presented) A middle distillate cut as claimed in claim 8, wherein the synthetic distillate is a FT product.
- 27-56 (Canceled)
- 57. (Currently Amended) A synthetic middle distillate cut as claimed in claim 11, wherein the  $\underline{a}$  C<sub>19</sub> to C<sub>24</sub> fraction of the middle distillate cut has a mass ratio range of isoparaffins to n-paraffins of between 4:1 and 4.9:1.